

Work Order ID 135529

Wednesday, August 12, 2015 4:32:28 PM

135529

Page 1

Item ID: 646.4001 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: AS350 Cable Cutter System
 Start Date: 8/05/15 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 8/12/15 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: MLJ Date: AUG 17 2015 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
646.4000	B.		DAS 6					MLJ	15-08-25
100	Document Control	0.00				DAS 6 9-89	DAS 6 9-89		
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00				DAS 27 9-89			DAS 26 9-89
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

AUG 26 2015

SEP 08 2015

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Date :		Step #:		QTY Effective :			MRB (QS1042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐																				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐																				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____																							
Misidentified ☐	Past Due ☐																								

Picklist Print

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Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.3301 *646 3301* Upper Cutter Assy		Manufactured	No				Each	3.0000				27 9-89	DAS 26 9-89
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					CCK042			3					
					123396			3					
646.3001 *646 3001* Lower Cutter Assy		Manufactured	No				Each	4.0000				27 9-89	DAS 26 9-89
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					CCK045			4					
					124733			4					
646.2910 *646 2910* Deflector		Manufactured	No				Each	7.0000				27 9-89	DAS 26 9-89
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					CCK050			7					
					123356			7					
646.3810 *646 3810* Bracket		Manufactured	No				Each	9.0000				27 9-89	DAS 26 9-89
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					cck023a			6					
					131001			6					
					cck104			3					
					132616			3					

AUG 26 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification ☐	☐	Pressure/Forced ☐	☐	Temperature/Cure ☐	☐
Design ☐	☐	Operator ☐	☐	Bending ☐	☐	Set-up ☐	☐
Doc/Data ☐	☐	Offset/Setup ☐	☐	Centre Not Concentric ☐	☐	BOM/Route ☐	☐
Equip/Tooling ☐	☐	Supplier ☐	☐	Cracks ☐	☐	Broken/Damage/Defect ☐	☐
Handling/Pre ☐	☐	Training ☐	☐	Crimp/Kink/Ripple/Wave ☐	☐	Inspection Incomplete/Unqualified ☐	☐
Material ☐	☐	Use for Testing ☐	☐	Cuffs ☐	☐	Contamination ☐	☐
Internal Transport ☐	☐	Poor Information ☐	☐	Crushing ☐	☐	Countersink ☐	☐
Tribal Knowledge ☐	☐	Rushing ☐	☐	Heat Treat ☐	☐	Cut Too Short ☐	☐
LOA ☐	☐	Product Improvement ☐	☐	Wave/Twist in Tube ☐	☐	Instructions Incomplete/Unclear ☐	☐
Substation ☐	☐	Process Improvement ☐	☐	Marks/Chatter ☐	☐	Drill Holes ☐	☐
Past Expiry Date ☐	☐	Manufacturing Process ☐	☐	OTHER : _____			
Misidentified ☐	☐	Past Due ☐	☐				

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Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

646.3510

Manufactured No

Each 10.0000

646 3510

Strut

DAS
6
9-89

**

DAS
27
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

cck15a

10

127077

10

Each

7.0000

**

DAS
27
9-89

DAS
26
9-89

646.3511

Manufactured No

646 3511

Strut

Location

Loc Qty

Loc Code

cck102

3

127082

3

cck15a

4

102891

4

Each

185.0000

**

DAS
27
9-89

DAS
26
9-89

647.0112

Manufactured No

647 0112

Strut Bracket

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK109

185

112215

18

122245

5

122871

48

123318

22

M130388

92

Each

0.0000

**

DAS
27
9-89

AUG 26 2015

647.7703

Manufactured No

647 7703

Strut Assembly

DAS
6
9-89

135785

SEP 09 2015

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Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

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Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

Each

1,516.000

NAS1149F0332P

Washer

**

DAS 26 9-89

DAS 26 9-89

Location

Loc Qty

Loc Code

GA	222	
122063	222	
ST260a	1201	
m128401	6	
m131026	80	
m131697	1115	
st268	93	
123900	7	
m130388	86	

Each

1,578.000

**

DAS 26 9-89

DAS 26 9-89

Location

Loc Qty

Loc Code

FP001	393	
M130922	393	
GA	270	
M131317	270	
ST305	915	
116549	12	
126333	49	
M128754	2	
M132123	17	
M132382	2	
M132883	333	
M132930	500	

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Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
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Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

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135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

646.3110

Manufactured No

Each 2.0000

1

646 3110

Channel

**

DAS
26
9-89

Location

Loc Qty

Loc Code

cck020

2

DAS

27

9-89

126780

2

Each

25.0000

**

DAS
26
9-89

646.3710

Manufactured No

646 3710

Doubler

**

Location

Loc Qty

Loc Code

CCK015

25

DAS

27

9-89

127550

25

Each

4.0000

**

DAS
26
9-89

646.3210

Manufactured No

646 3210

Support

**

Location

Loc Qty

Loc Code

cck020

4

DAS

27

9-89

133166

4

Each

17.0000

**

DAS
26
9-89

646.3713

Manufactured No

646 3713

Gusset

**

Location

Loc Qty

Loc Code

cck103

17

DAS

27

9-89

120631

17

Each

192.0000

**

DAS
26
9-89

MS24694-S51

Purchased No

MS24694-S51

Screw

**

Location

Loc Qty

Loc Code

ST289

192

DAS

27

9-89

m130928

192

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Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐																																																														
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐																																																														
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐																																																														
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐																																																														
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐																																																														
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐																																																														
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐																																																														
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____																																																																
Misidentified ☐	Past Due ☐																																																																	

Picklist Print

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Page 5

Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

AN3-13A

Purchased

No

Each

61.0000

AN3-13A

Bolt

**

DAS

DAS

27

26

9-89

9-89

Location

Loc Qty

Loc Code

CA

3

m129682

3

GA

20

m127070

20

ST349

38

m131305

38

Each

174.0000

**

DAS

DAS

27

26

9-89

9-89

Location

Loc Qty

Loc Code

CA

110

m129682

110

ST350

64

m132317

64

Each

132.0000

**

DAS

DAS

27

26

9-89

9-89

Location

Loc Qty

Loc Code

ST319

132

m127831

30

m130388

2

m132763

100

AUG 26 2015

AN3-4A

Purchased

No

Each

174.0000

AN3-4A

Bolt

**

DAS

DAS

27

26

9-89

9-89

Location

Loc Qty

Loc Code

CA

110

m129682

110

ST350

64

m132317

64

Each

132.0000

**

DAS

DAS

27

26

9-89

9-89

Location

Loc Qty

Loc Code

ST319

132

m127831

30

m130388

2

m132763

100

AUG 26 2015

CR3213-5-3

Purchased

No

Each

132.0000

CR3213-5-3

Cherry Rivet

**

DAS

DAS

27

26

9-89

9-89

Location

Loc Qty

Loc Code

ST319

132

m127831

30

m130388

2

m132763

100

AUG 26 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																
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Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																																																																	
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Large Fab ☐	Composite ☐	Supplier ☐																																																																		
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval																																																																
Description Work Order Deviation		Disposition		Completed By																																																																
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				QC / QA Coordinator Approval																																																																
Root Cause		FAULT CATEGORY																																																																		
<table style="width:100%; border: none;"> <tr><td style="border: none;">Environment ☐</td><td style="border: none;">No Re-verification ☐</td></tr> <tr><td style="border: none;">Design ☐</td><td style="border: none;">Operator ☐</td></tr> <tr><td style="border: none;">Doc/Data ☐</td><td style="border: none;">Offset/Setup ☐</td></tr> <tr><td style="border: none;">Equip/Tooling ☐</td><td style="border: none;">Supplier ☐</td></tr> <tr><td style="border: none;">Handling/Pre ☐</td><td style="border: none;">Training ☐</td></tr> <tr><td style="border: none;">Material ☐</td><td style="border: none;">Use for Testing ☐</td></tr> <tr><td style="border: none;">Internal Transport ☐</td><td style="border: none;">Poor Information ☐</td></tr> <tr><td style="border: none;">Tribal Knowledge ☐</td><td style="border: none;">Rushing ☐</td></tr> <tr><td style="border: none;">LOA ☐</td><td style="border: none;">Product Improvement ☐</td></tr> <tr><td style="border: none;">Substation ☐</td><td style="border: none;">Process Improvement ☐</td></tr> <tr><td style="border: none;">Past Expiry Date ☐</td><td style="border: none;">Manufacturing Process ☐</td></tr> <tr><td style="border: none;">Misidentified ☐</td><td style="border: none;">Past Due ☐</td></tr> </table>	Environment ☐	No Re-verification ☐	Design ☐	Operator ☐	Doc/Data ☐	Offset/Setup ☐	Equip/Tooling ☐	Supplier ☐	Handling/Pre ☐	Training ☐	Material ☐	Use for Testing ☐	Internal Transport ☐	Poor Information ☐	Tribal Knowledge ☐	Rushing ☐	LOA ☐	Product Improvement ☐	Substation ☐	Process Improvement ☐	Past Expiry Date ☐	Manufacturing Process ☐	Misidentified ☐	Past Due ☐	<table style="width:100%; border: none;"> <tr><td style="border: none;">☐ Pressure/Forced</td><td style="border: none;">☐ Temperature/Cure</td></tr> <tr><td style="border: none;">☐ Bending</td><td style="border: none;">☐ Set-up</td></tr> <tr><td style="border: none;">☐ Centre Not Concentric</td><td style="border: none;">☐ BOM/Route</td></tr> <tr><td style="border: none;">☐ Cracks</td><td style="border: none;">☐ Broken/Damage/Defect</td></tr> <tr><td style="border: none;">☐ Crimp/Kink/Ripple/Wave</td><td style="border: none;">☐ Inspection Incomplete/Unqualified</td></tr> <tr><td style="border: none;">☐ Cuffs</td><td style="border: none;">☐ Contamination</td></tr> <tr><td style="border: none;">☐ Crushing</td><td style="border: none;">☐ Countersink</td></tr> <tr><td style="border: none;">☐ Heat Treat</td><td style="border: none;">☐ Cut Too Short</td></tr> <tr><td style="border: none;">☐ Wave/Twist in Tube</td><td style="border: none;">☐ Instructions Incomplete/Unclear</td></tr> <tr><td style="border: none;">☐ Marks/Chatter</td><td style="border: none;">☐ Drill Holes</td></tr> </table>	☐ Pressure/Forced	☐ Temperature/Cure	☐ Bending	☐ Set-up	☐ Centre Not Concentric	☐ BOM/Route	☐ Cracks	☐ Broken/Damage/Defect	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Cuffs	☐ Contamination	☐ Crushing	☐ Countersink	☐ Heat Treat	☐ Cut Too Short	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Marks/Chatter	☐ Drill Holes	<table style="width:100%; border: none;"> <tr><td style="border: none;">☐ Power Loss/Surge</td><td style="border: none;">☐ Positioned Wrong</td></tr> <tr><td style="border: none;">☐ Folio/Program</td><td style="border: none;">☐ Outside Dimensions</td></tr> <tr><td style="border: none;">☐ Grain</td><td style="border: none;">☐ Over/Under tolerance</td></tr> <tr><td style="border: none;">☐ Weld</td><td style="border: none;">☐ Part Incorrect</td></tr> <tr><td style="border: none;">☐ Wrong Stock Pulled</td><td style="border: none;">☐ Part Lost/Missing</td></tr> <tr><td style="border: none;">☐ Out of Sequence</td><td style="border: none;">☐ Part Moved</td></tr> <tr><td style="border: none;">☐ Off-set</td><td style="border: none;">☐ Drawing</td></tr> <tr><td style="border: none;">☐ Mislabeled</td><td style="border: none;">☐ Finish</td></tr> <tr><td style="border: none;">☐ Fit/Function</td><td style="border: none;">☐ Misread</td></tr> <tr><td style="border: none;">☐ Misaligned/off center</td><td style="border: none;">☐ Turning Sequence</td></tr> </table>			☐ Power Loss/Surge	☐ Positioned Wrong	☐ Folio/Program	☐ Outside Dimensions	☐ Grain	☐ Over/Under tolerance	☐ Weld	☐ Part Incorrect	☐ Wrong Stock Pulled	☐ Part Lost/Missing	☐ Out of Sequence	☐ Part Moved	☐ Off-set	☐ Drawing	☐ Mislabeled	☐ Finish	☐ Fit/Function	☐ Misread	☐ Misaligned/off center	☐ Turning Sequence
Environment ☐	No Re-verification ☐																																																																			
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Equip/Tooling ☐	Supplier ☐																																																																			
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☐ Misaligned/off center	☐ Turning Sequence																																																																			
OTHER : ☐																																																																				

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Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

MS20470AD5-5.5

Purchased

No

Each

207.0000

MS20470AD5-5.5

Rivet

**

DAS

27

9-89

Location

Loc Qty

Loc Code

ST310

207

123425

207

Each

37.0000

**

DAS

27

9-89

Location

Loc Qty

Loc Code

cck103

37

120626

37

Each

27.0000

**

DAS

27

9-89

Location

Loc Qty

Loc Code

cck103

27

101119

1

120630

26

Each

24.0000

**

DAS

27

9-89

Location

Loc Qty

Loc Code

cck104

24

110717

9

122938

15

AUG 26 2015

646.3711

Manufactured

No

646 3711

Clip

DAS

27

9-89

646.3712

Manufactured

No

646 3712

Clip

DAS

27

9-89

646.3811

Manufactured

No

646 3811

Radius Block

DAS

27

9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐			

Picklist Print

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Page 7

Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

AN3-6A

Purchased

No

Each

146.0000

AN3-6A

Bolt

**

DAS
27
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

ST338a

100

M131305

100

ST349

46

M132680

46

Each

155.0000

**

DAS
27
9-89

DAS
26
9-89

MS24694-S55

Purchased

No

MS24694-S55

Screw

Location

Loc Qty

Loc Code

ST289

155

m127305

3

m131624

52

m132803

100

Each

4.0000

**

DAS
27
9-89

DAS
26
9-89

646.3610

Manufactured

No

646 3610

Filler

Location

Loc Qty

Loc Code

cck103

4

127737

4

Each

18.0000

**

DAS
27
9-89

DAS
26
9-89

646.3714

Manufactured

No

646 3714

Gusset

Location

Loc Qty

Loc Code

cck103

18

120632

18

AUG 26 2015

DAS
6
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

MS20470AD5-6

Purchased

No

Each

1,088.000

MS20470AD5-6

RIVET

**

DAS
26
9-89
27
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

CCK004

890

124089

890

ST309

198

105433

198

Each

8.0000

**

DAS
26
9-89
27
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

cck023a

6

130858

6

cck104

2

132425

2

Each

396.0000

**

DAS
26
9-89
27
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

ST338a

200

m131624

200

ST350

196

m132317

196

AUG 26 2015

AN3-3A

Purchased

No

Each

396.0000

AN3-3A

Bolt

**

DAS
26
9-89
27
9-89

DAS
26
9-89

DAS
6
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

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Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

646.3813

Manufactured No

Each

16.0000

646 3813

Strut Bracket

DAS
6
9-89

Location

Loc Qty

Loc Code

cck104

5

132541

5

CCK23a

11

124265

4

127453

4

130946

3

Each

557.0000

**

DAS
27
9-89

MS20470AD5-7

Purchased

No

MS20470AD5-7

Rivet

DAS
6
9-89

Location

Loc Qty

Loc Code

ST309

557

123425

557

Each

110.0000

**

DAS
27
9-89

DAS
26
9-89

MS21047-3

Purchased

No

MS21047-3

Nut Plate

DAS
6
9-89

Location

Loc Qty

Loc Code

ST303

110

m130388

8

m132382

2

m132763

50

m132803

50

Each

232.0000

**

DAS
27
9-89

DAS
26
9-89

CCR264SS3-02

Purchased

No

CCR264SS3-02

Rivet, Cherry

DAS
6
9-89

Location

Loc Qty

Loc Code

ST321

232

M132317

232

**

DAS
27
9-89

DAS
26
9-89

AUG 26 2015

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Page 9

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Page 10

Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

AN3-5A

Purchased

No

Each

222.0000

**

AN3-5A

Bolt

DAS
26
9-89

Location

Loc Qty

Loc Code

CA

132

m129682

132

GA

90

m131420

90

Each

7.0000

**

646.3715

646 3715

Strut Doubler

DAS
26
9-89

Location

Loc Qty

Loc Code

cck103

7

131050

7

Each

28.0000

**

MS27039-1-12

MS27039-1-12

Screw

DAS
26
9-89

Location

Loc Qty

Loc Code

ST285

28

m128799

2

m131317

26

Each

8.0000

**

646.3716

646 3716

Gauge Bracket

DAS
26
9-89

Location

Loc Qty

Loc Code

cck103

8

122908

2

133105

6

DAS
27
9-89

DAS
27
9-89

DAS
27
9-89

add 2 to inventory

DAS
27
9-89

AUG 26 2015

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Page 10

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐				FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
OTHER :									

Picklist Print

Wednesday, August 12, 2015 4:32:26 PM

Page 11

Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

MS20426AD5-7

Purchased

No

Each

128.0000

MS20426AD5-7

RIVET

DAS
6
9-89

Location

Loc Qty

Loc Code

ST312

128

101340

28

M132767

100

Each

28.0000

MS24694-S54

Purchased

No

MS24694-S54

SCREW

DAS
6
9-89

Location

Loc Qty

Loc Code

ST289

28

m130388

6

m132344

22

Each

440.0000

MS27039-1-21

Purchased

No

MS27039-1-21

Screw

DAS
6
9-89

Location

Loc Qty

Loc Code

ST273A

395

m127904

395

ST284

45

124326

8

m120348

37

Each

222.0000

MS27039-1-20

Purchased

No

MS27039-1-20

Screw

DAS
6
9-89

Location

Loc Qty

Loc Code

ST284

222

124326

222

DAS
26
9-89

DAS
27
9-89

DAS
26
9-89

DAS
27
9-89

DAS
26
9-89

DAS
27
9-89

DAS
26
9-89

DAS
27
9-89

AUG 26 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By																																																									
								Lead hand / Supervisor Approval Verification																																																									
								QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

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Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-19

Purchased

No

Each

193.0000

22

MS27039-1-19

Screw

**

DAS
27
9-89

DAS
27
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

GA

124

m124326

32

m127904

92

ST284

69

m127904

69

Each

17.0000

22
1

**

DAS
27
9-89

646.3717

Manufactured

No

646.3717

Doubler

DAS
6
9-89

Location

Loc Qty

Loc Code

cck103

17

120633

17

Each

4.0000

2
1

**

DAS
27
9-89

DAS
27
9-89

646.3718

Manufactured

No

646.3718

Custom Washer

DAS
6
9-89

Location

Loc Qty

Loc Code

cck103

4

132698

4

Each

29.0000

2
2

**

DAS
27
9-89

DAS
27
9-89

646.3719

Manufactured

No

646.3719

Doubler

DAS
6
9-89

Location

Loc Qty

Loc Code

cck126

29

120634

29

2

DAS
27
9-89

AUG 26 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																		
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Environment ☐	No Re-verification ☐																																																																					
Design ☐	Operator ☐																																																																					
Doc/Data ☐	Offset/Setup ☐																																																																					
Equip/Tooling ☐	Supplier ☐																																																																					
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Drawing ☐																																																																						
Finish ☐																																																																						
Misread ☐																																																																						
Turning Sequence ☐																																																																						
OTHER : ☐																																																																						

Picklist Print

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Page 13

Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

Each

543.0000

MS27039-1-10

SCREW

**

DAS

27

9-89

DAS

26

9-89

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

122

m129541

122

ST273A

200

m132677

200

ST285

180

m123522

2

m130358

2

m132640

176

Each

166.0000

**

DAS

27

9-89

DAS

26

9-89

Location

Loc Qty

Loc Code

ST338a

166

m125709

66

m132823

100

Each

51.0000

**

DAS

27

9-89

DAS

26

9-89

Location

Loc Qty

Loc Code

CA2

26

M131589

26

PKG

25

M129818

25

2/11/16

7/16/15

f good
1

AN3-11A

AN3-11A

Bolt

DAS
6
9-89

DAS
6
9-89

600.0990

600 0990

MAGNABOND 6398 PART A

Purchased

No

Purchased

No

DAS
6
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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		OTHER : ☐																							

Picklist Print

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Page 14

Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

600.0991

Purchased No

Each 51.0000

600-0991

MAGNOBOND 6398 PART B

DAS
6
9-89

Location

Loc Qty

Loc Code

CA2

27

m131589

27

PKG

24

M129818

24

Each

22.0000

**

DAS
26
9-89

27

9-89

600.1012

Purchased No

600-1012

Sealant PR1425B2 (#654 sem)

exp
04/2014

DAS
6
9-89

Location

Loc Qty

Loc Code

cck017

19

m132805

19

cck018

3

m129749

2

m131364

1

f

304.0000

**

DAS
26
9-89

27

9-89

600.0129

Purchased No

600-0129

VHB TAPE 75935A651

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK095

272

m131311

272

CCK096

32

m127920

32

Each

930.0000

**

DAS
26
9-89

27

9-89

600.1013

Purchased No

600-1013

021200-3M TAPE PRIMER 94 PRIMER 24216

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK095

930

m131145

930

**

DAS
26
9-89

27

9-89

6/15/16

AUG 26 2015

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Page 14

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Picklist Print

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Page 15

Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

646.3910

Manufactured No

Each 48.0000

646 3910

Shim

DAS
6
9-89

**

27
9-89
301

Location

Loc Qty

Loc Code

cck104

48

122951

48

Each

79.0000

**

AUG 26 2015

646.3911

Manufactured No

646 3911

Shim

DAS
6
9-89

Location

Loc Qty

Loc Code

cck023

50

126059

50

cck104

18

126229

18

k023a

11

123075

11

Each

81.0000

**

AUG 26 2015

646.3912

Manufactured No

646 3912

Shim

DAS
6
9-89

Location

Loc Qty

Loc Code

cck023a

60

123143

50

124501

10

cck104

21

103082

1

123530

20

AUG 26 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation		Disposition			

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date ☐	☐	Manufacturing Process	☐	OTHER : _____			
Misidentified ☐	☐	Past Due	☐				

Picklist Print

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Page 16

Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

646.3913

Manufactured No

Each 119.0000

646.3913

Shim

**

DAS

27

9-89

DAS
26
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

cck023a

25

124108

25

cck023aq

82

126060

82

cck104

12

100136

2

126231

10

Each 55.0000

**

DAS

27

9-89

DAS
26
9-89

AN3-12A

Purchased No

AN3-12A

Bolt

DAS
6
9-89

Location

Loc Qty

Loc Code

CA

55

m129682

55

Each 176.0000

**

DAS

27

9-89

DAS
26
9-89

MS27039-1-16

Purchased No

MS27039-1-16

Screw

DAS
6
9-89

Location

Loc Qty

Loc Code

ST285

176

m130388

4

m131317

72

m132344

100

Each 5.0000

**

DAS

27

9-89

DAS
26
9-89

650.9201

Manufactured No

650.9201

Eyelet Bracket Assembly

DAS
6
9-89

Location

Loc Qty

Loc Code

cck126

5

132814

5

AUG 26 2015

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

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Design ☐	Operator ☐																																																																								
Doc/Data ☐	Offset/Setup ☐																																																																								
Equip/Tooling ☐	Supplier ☐																																																																								
Handling/Pre ☐	Training ☐																																																																								
Material ☐	Use for Testing ☐																																																																								
Internal Transport ☐	Poor Information ☐																																																																								
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☐ Crimp/Kink/Ripple/Wave																																																																									
☐ Cuffs																																																																									
☐ Crushing																																																																									
☐ Heat Treat																																																																									
☐ Wave/Twist in Tube																																																																									
☐ Marks/Chatter																																																																									
☐ Temperature/Cure																																																																									
☐ Set-up																																																																									
☐ BOM/Route																																																																									
☐ Broken/Damage/Defect																																																																									
☐ Inspection Incomplete/Unqualified																																																																									
☐ Contamination																																																																									
☐ Countersink																																																																									
☐ Cut Too Short																																																																									
☐ Instructions Incomplete/Unclear																																																																									
☐ Drill Holes																																																																									
☐ Power Loss/Surge																																																																									
☐ Folio/Program																																																																									
☐ Grain																																																																									
☐ Weld																																																																									
☐ Wrong Stock Pulled																																																																									
☐ Out of Sequence																																																																									
☐ Off-set																																																																									
☐ Misabeled																																																																									
☐ Fit/Function																																																																									
☐ Misaligned/off center																																																																									
☐ Positioned Wrong																																																																									
☐ Outside Dimensions																																																																									
☐ Over/Under tolerance																																																																									
☐ Part Incorrect																																																																									
☐ Part Lost/Missing																																																																									
☐ Part Moved																																																																									
☐ Drawing																																																																									
☐ Finish																																																																									
☐ Misread																																																																									
☐ Turning Sequence																																																																									
OTHER : _____																																																																									

Picklist Print

Wednesday, August 12, 2015 4:32:27 PM

Page 17

Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

AN44-5A Purchased No

Each 22.0000

2

AN44-5A

Eyebolt

DAS
6
9-89

**

DAS
27
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

ST339

22

124241

12

m126193

10

Each

22.0000

**

DAS
27
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

ST330

22

M130388

4

M132317

8

M132954

10

Each

86.0000

**

DAS
27
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

ST345

86

m127363

86

Each

1,062.000

**

DAS
27
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

ST260a

500

M132551

500

st268

562

M128995

63

M130388

8

M132677

491

AUG 26 2015

AN4C7A

AN4C7A

BOLT

DAS
6
9-89

Purchased No

**

DAS
27
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

ST345

86

m127363

86

Each

1,062.000

**

DAS
27
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

ST260a

500

M132551

500

st268

562

M128995

63

M130388

8

M132677

491

AUG 26 2015

NAS1149F0432P

NAS1149F0432P

WASHER

DAS
6
9-89

Purchased No

**

DAS
27
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

ST260a

500

M132551

500

st268

562

M128995

63

M130388

8

M132677

491

AUG 26 2015

Wednesday, August 12, 2015 4:32:27 PM

Shop Packet Print

Page 17

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

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Page 18

Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

Each

2,772.000

MS21042L4

Locknut

DAS
6
9-89

Location

Loc Qty

Loc Code

FP001

2

m124231

2

GA

134

m127813

134

ST260a

170

m130799

56

m131803

6

m132262

108

ST305

2466

m128300

8

m128798

12

m130388

7

m130922

97

m131618

12

m132123

56

m132382

2274

**

DAS

27

9-89

DAS
26
9-89

AN316C4R

Purchased

No

Each

35.0000

AN316C4R

NOT

DAS
6
9-89

Location

Loc Qty

Loc Code

ST331

35

m127618

20

m127838

13

m130388

2

**

DAS

27

9-89

DAS
26
9-89

AUG 26 2015

2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Wednesday, August 12, 2015 4:32:27 PM

Page 19

Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

MS21042-3 MS21042L3 Purchased No

Each 561.0000

MS21042-3
Nut / use MS21042L3

**

132930

DAS

DAS
26
9-89

27

9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

CA	501
M129682	501
ST305	60
M128770	10
M129541	15
M130388	35

Each 423.0000

**

DAS

DAS
26
9-89

27

9-89

MS27039-08-13

Purchased No

MS27039-08-13
Screw

DAS
6
9-89

Location

Loc Qty

Loc Code

ST273A	346
124326	346
ST281	77
123352	4
4067	69
M130388	4

Each 33.0000

**

131697

DAS

DAS
26
9-89

27

9-89

MS21042-08

MS21042L08

Purchased No

MS21042-08
USE MS21042L08

DAS
6
9-89

Location

Loc Qty

Loc Code

ST304	25
122815	25
ST306	8
m130388	8

AUG 26 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Wednesday, August 12, 2015 4:32:27 PM

Page 20

Work Order ID: 135529

135529

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/05/15

Required Date: 8/12/15

Start Qty: 1.00

Required Qty: 1.00

NAS1149FN832P

Purchased

No

Each

2,963.000

4

NAS1149FN832P

Washer

**

DAS
27
9-89

DAS
26
9-89

AUG 26 2015

Location

Loc Qty

Loc Code

ST260a

1704

125268

1704

st268

1259

125268

338

M130388

921

4

DAS
6
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO.

04731

SHEET 1 OF 2

DWG NO. 646.4000

REV: A

PREPARED BY J. SOTO

DATE: 11/04/2014

EFFECT ON DWG
☒ INC. ☐ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY: ENGR *[Signature]*

MFG *[Signature]* QC *[Signature]*

EFF. NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: REVISED BOM. INCORPORATED ECN 03046 AND 03079.

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 135529 MLC
15-08-17

76	A	601.2764	4	4	WASHER	NAS1149FN832P	
75	A	601.2973	2	2	LOCKNUT	MS21042-08	
74	A	601.2988	2	2	SCREW	MS27039-0813	
73	A	601.2943	2	2	LOCKNUT	MS21042-3	
72	A	601.3128	2	2	NUT	AN316C4R	
71	A	601.3209	2	2	LOCKNUT	MS21042L4	
70	A	601.2638	4	4	WASHER	NAS1149F0432P	
69	A	601.2669	2	2	BOLT	AN4C7A	
68	A	601.3119	2	2	CLEVIS	AN665-34R	
67	A	601.3121	2	2	EYE BOLT	AN44-57	
66	A	650.9201	2	2	EYE BRACKET ASSY		
51	R	601.2926	10	10	BOLT	AN3-11A	
12	R	601.1624	53	61	LOCKNUT	MS21042L3	
11	R	601.1607	120	138	WASHER	NAS1149F0332P	
8	R	647.7703	2	2	STRUT ASSY		
7	R	647.0112	2	2	STRUT BRACKET		
F/N TC	PART NUMBER	.4003	.4001				
		QTY			DESCRIPTION	MATERIAL	SPECIFICATION

DOCUMENTS EFFECTED:

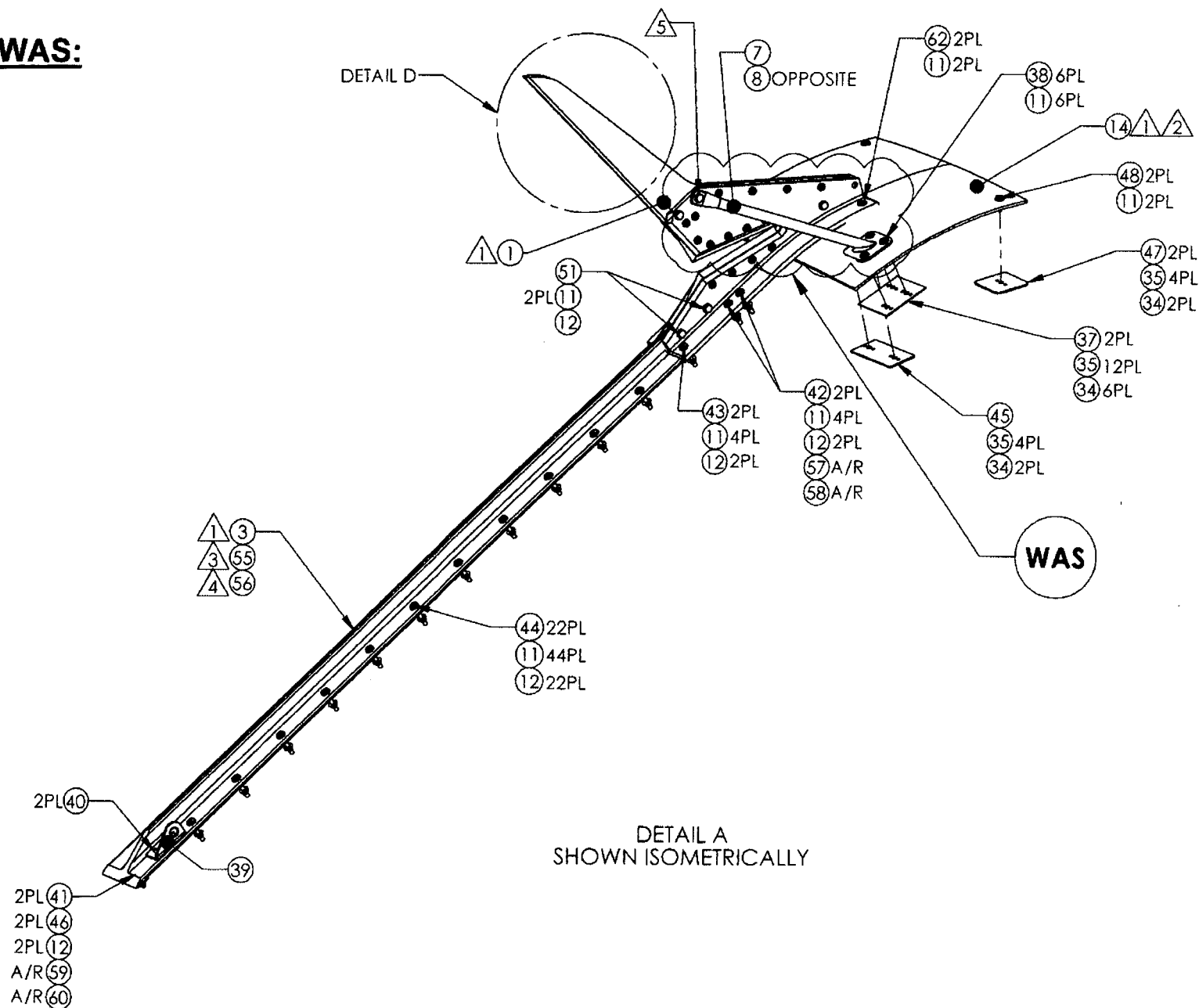
☐ MDL ☒ INSTALL INSTRUCTIONS ☒ ICA ☐ FMS ☒ BOM

CHANGE CATEGORY

☐ MAJOR ☒ MINOR

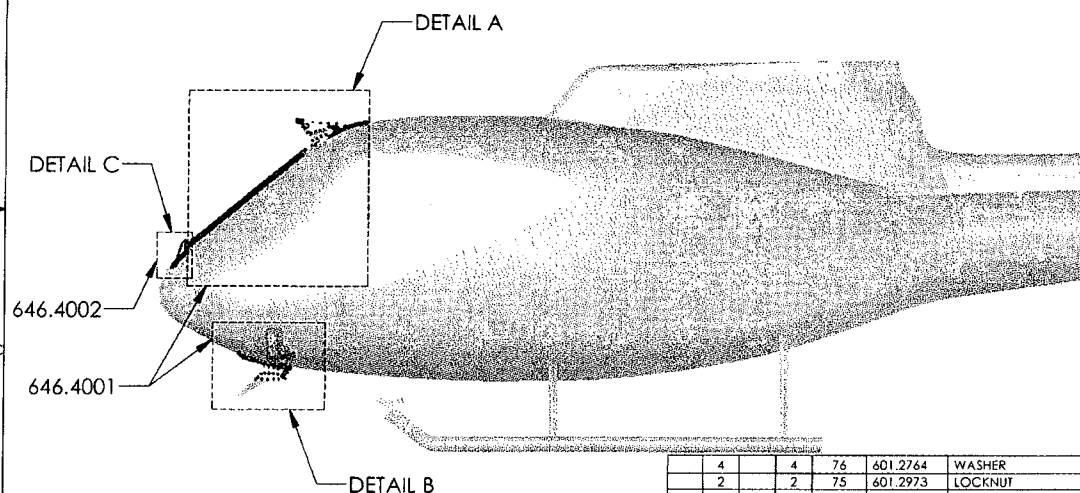
DER REVIEW REQUIRED

☐ YES ☒ NO

SHEET 2 WAS:

NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR : MCMMASTER-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1



	4	4	76	601.2764	WASHER	NAST149F832 P
	2	2	75	601.2973	LOCKNUT	M521042-0B
	2	2	74	601.2988	SCREW	M522039-0813
	2	2	73	601.2943	LOCKNUT	M521042-3
	2	2	72	601.3128	NUT	AN316C6R
	2	2	71	601.3209	LOCKNUT	M521042L4
	4	4	70	601.2638	WASHER	NAST149F832 P
	2	2	69	601.2669	BOLT	ANAC7A
	2	2	68	601.3119	CLEVIS	AN665-34R
	2	2	67	601.3121	EYE BOLT	AN64-SA
	2	2	66	650.9201	EYE BRACKET ASSY	
REF	REF	REF	65	647.5701	GPS MOUNT KIT	
	6 2		64	601.3151	WASHER	NAST149F832P
			63	601.2911	SCREW	M52449-45S3
	2	2	62	601.2637	SCREW	F4522039-1-16
			61	601.2763	BOLT	AN3-12A
	1	1	60	646.3913	SHIM	
	4	4	59	646.3912	SHIM	
	1	1	58	646.3911	SHIM	
	4	4	57	646.3910	SHIM	
	5	5	56	600.1013	PRIMER	
.0004	.0003	.0002	.0001	FIND #	PART #	DESCRIPTION
						MAT'L
						SPEC

REV.		DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECH 0219, 0231, 0211 & 0276		07/02/2010	P. BRAVO
B	INCORPORATED ECH 0204, 0207 & 0431		11/04/2014	P. BRAVO

8 FT	55	600.0129	VHB TAPE					
1	54	600.1012	SEALANT	PR-1425 CLASS B				
1	53	600.0991	MAGNABOND 4398 PART B					
1	52	600.0990	MAGNABOND 4398 PART A					
10	10	601.2826	BOLT	AN3-11A				
	2	50	646.3814	WIPER BRACKET				
	2	49	601.2910	SCREW	MS27039-1-18			
2		2	48	601.1365	SCREW	MS27039-1-10		
2		2	47	646.3719	DOUBLER			
	2	2	46	646.3718	CUSTOM WASHER			
1		1	45	646.3717	DOUBLER			
22	2	22	44	601.1948	SCREW	MS27039-1-19		
2		2	43	601.1952	SCREW	MS27039-1-20		
4		4	42	601.1956	SCREW	MS27039-1-21		
2		2	41	601.2829	SCREW	MS24694554		
2		2	40	601.2831	RIVET	MS20470AD5-7		
1		1	39	646.3716	GAUGE BRACKET			
6		6	38	601.1953	SCREW	MS27039-1-12		
2		2	37	646.3715	STRUT DOUBLER			
	2	2	36	601.2824	BOLT	AN3-5A		
36		36	35	601.2277	RIVET	COR24455-3-02		
18		18	34	600.0795	NUTPLATE	MS21047-3		
3		3	33	601.2565	RIVET	MS20470AD5-7		
1		1	32	646.3813	STRUT BRACKET			
4		4	31	601.2822	BOLT	AN3-3A		
2		2	30	646.3812	GUSSET BRACKET			
8		8	29	601.2564	RIVET	MS20470AD5-6		
1		1	28	646.3714	GUSSET			
	1	1	27	646.3610	FILLER			
	1	1	26	601.2830	SCREW	MS24694555		
2		2	25	601.2825	BOLT	AN3-6A		
1		1	24	646.3811	RADIUS BLOCK			
	1	1	23	646.3712	CUP			
	1	1	22	646.3711	CLIP			
6		6	21	601.2832	RIVET	MS20470AD5-5.5		
14		14	20	601.2020	RIVET	CR3213-5-3		
10		10	19	601.2823	BOLT	AN3-4A		
	1	1	18	601.2827	BOLT	AN3-13A		
	5	5	17	601.2912	SCREW	MS24694551		
1		1	16	646.3713	GUSSET			
1		1	15	646.3210	SUPPORT			
1		1	14	646.3710	DOUBLER			
1		1	13	646.3610	CHANNEL			
8	53	6	61	12	601.1624	LOCKNUT	MS21042L3	
18	120	16	138	11	601.1607	WASHER	MS11109332P	
				10	646.3410	LH WIPER DEFLECTOR		
				9	646.3411	RH WIPER DEFLECTOR		
	2		2	8	647.7703	STRUT ASSY		
	2		2	7	647.0112	STRUT BRACKET		
	1		1	6	646.3511	STRUT		
	1		1	5	646.3510	STRUT		
2			2	4	646.3810	BRACKET		
	1		1	3	646.2910	DEFLECTOR		
	1		1	2	646.3001	LOWER CUTTER ASSY		
	1		1	1	646.3301	UPPER CUTTER ASSY		
X					646.4004	FIXED PROVISIONS KIT		
X					646.4003	CABLE CUTTERS 1/2" W/ROGUE TIES		
					646.4002	PROVISIONS		
					646.4001	ASS350 WIPER DEFLECTOR KIT		
					646.4001	ASS350 CABLE CUTTERS KIT		
4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.

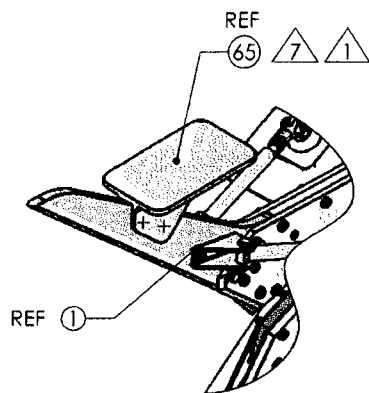
QTY		NEXT ASSY (S)		PART LIST	
				APICAL INDUSTRIES	
				2608 TEMPLE HEIGHTS DR.	
				OCEANSIDE, CA. 92056-3512 (760)724-5300	
				ASS350 CABLE CUTTERS KIT	
				SPE	
				CAGE CODE	
				DWG. NO.	
				REV	
				B	
				07M26	
				746,000	
				SCALE	
				NONE	
				1 SHEET	
				1 OF 4	

ORIGINAL DATE	18-27-08
DRAWN BY	J. CHESTER
S. HUFF	P. BRAVO
DESIGNED BY	
APPROVED BY	
DATE	
CONTRACT NO.	

UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
TOLERANCES ARE:	
2 PLACE DECIMALS	± .01
3 PLACE DECIMALS	± .005
ANGLES	± .5°

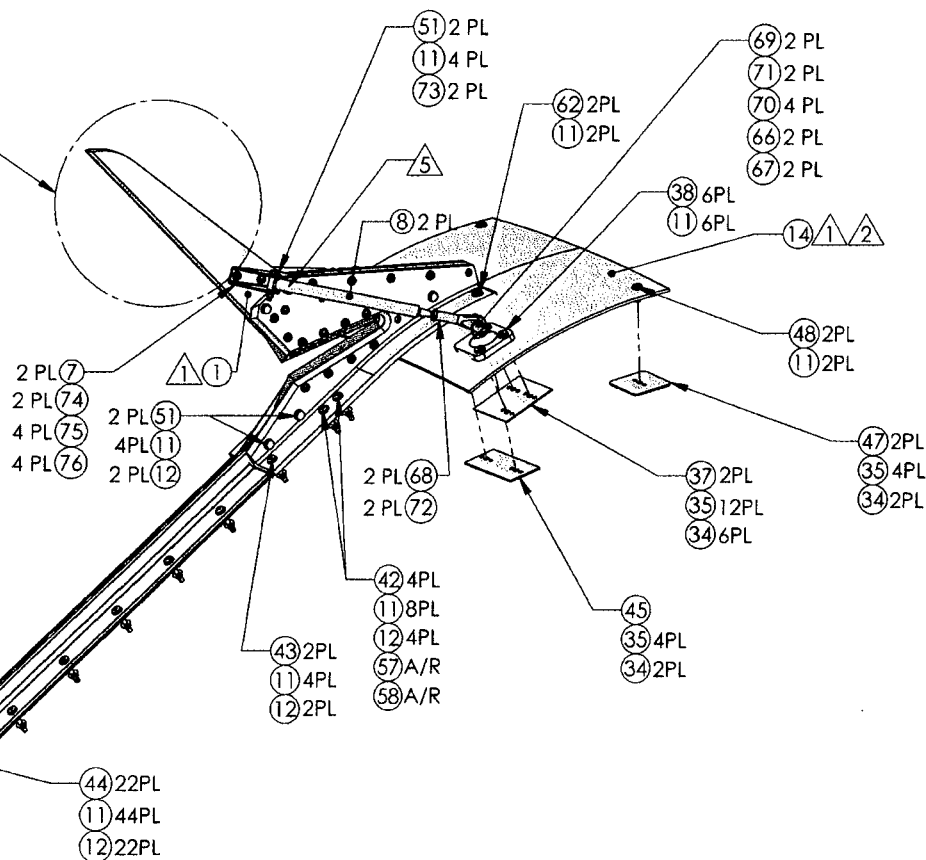
SCALE	CAGE CODE	DWG. NO.	REV
B	07M26	746,000	B
SCALE	NONE	1	SHEET
		1	OF 4

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DETAIL D
TYPICAL GPS MOUNT KIT INSTALLATION

DETAIL D



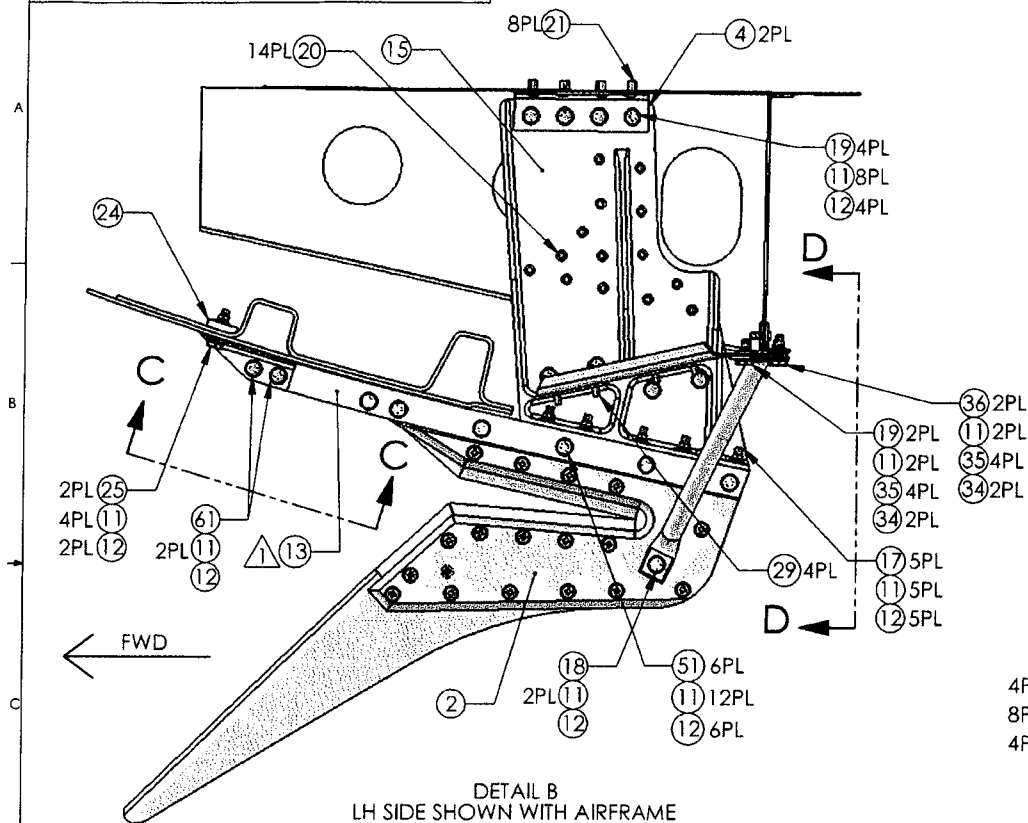
DETAIL A
SHOWN ISOMETRICALLY

- 2 PL 40
- 2 PL 41
- 2 PL 12
- 2 PL 46
- A/R 59
- A/R 60
- 39

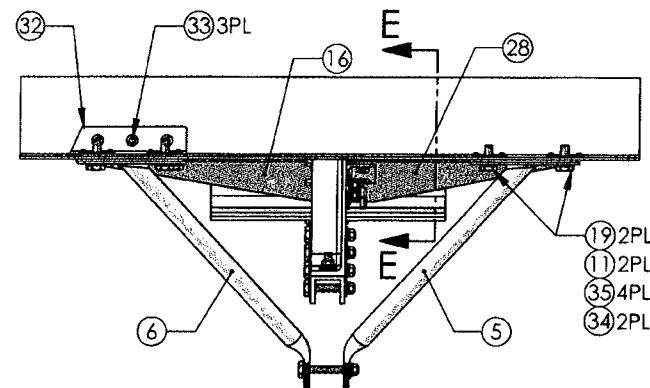
ORIGINAL DATE (M/D/YR) 08-27-08		APICAL INDUSTRIES	
DRAWN BY: S. RUFF		2608 TEMPLE HEIGHTS DR.	
CHECKED BY: P. BRAVO		OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO		AS350 CABLE CUTTERS KIT	
CONTRACT NO.		SEE CAGE CODE DWG. NO. 646.4000	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		REV. B	SHEET 2 OF 4

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

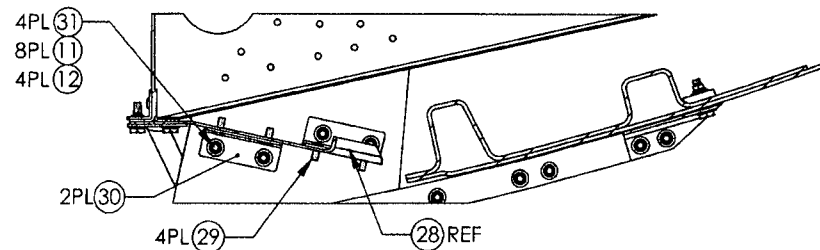
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



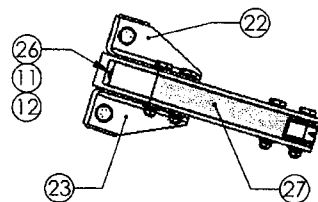
DETAIL B
LH SIDE SHOWN WITH AIRFRAME



SECTION D-D
CUTTER HIDDEN FOR CLARITY



SECTION E-E

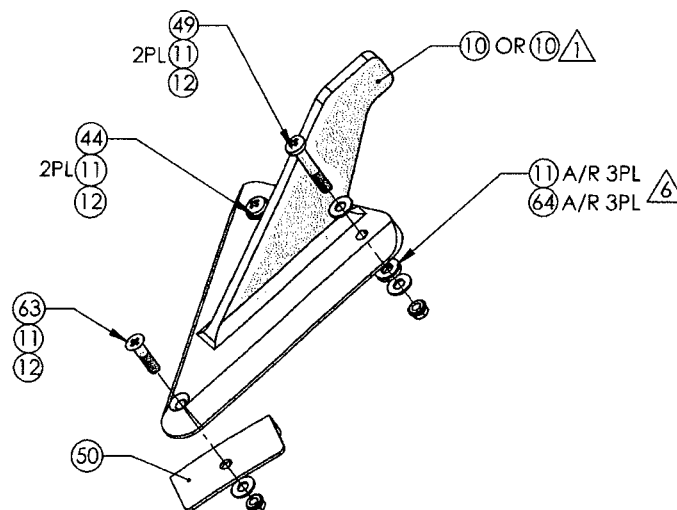


SECTION C-C

ORIGINAL DATE (MM-DD-YY) 06-27-08		APICAL INDUSTRIES	
DRAWN BY S. HUFF	CHECKED BY J. BRAY	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAY	DESIGNER P. BRAY	AS350 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°		SHEET B	REV B
CAGE CODE 07M26		DWG. NO. 646.4000	SCALE NONE
SHEET 3 OF 4		SHEET 3 OF 4	

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APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT
THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



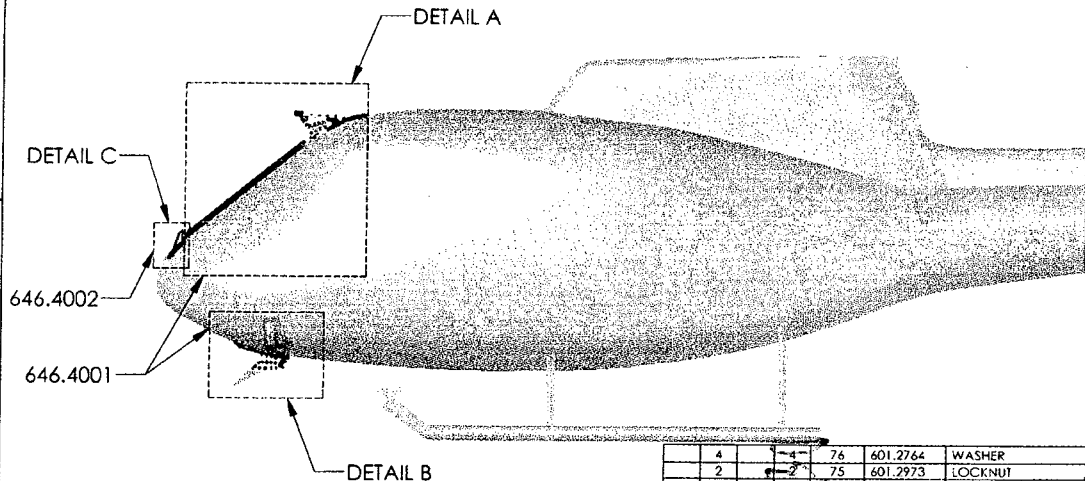
DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE (MM-DD-YY) 08-27-08		APICAL INDUSTRIES	
DRAWN BY S. HUFF	CHECKED BY P. BRAVO	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
DRAWING APPROVAL P. BRAVO 08-27-08		AS350 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ± .01 ANGLES ± .5°		SHEET 8	CAGE CODE 07M26 DWG NO 646.4000 REV 3
SCALE NONE		SHEET 4 OF 4	

REFERENCE ONLY

DAS
6
9-89

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR : MCMMASTER-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR : R.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1



	4	1	76	601.2764	WASHER	NAST1490132
	2	2	75	601.2973	LOCKNUT	MS21042-08
	2	2	74	601.2988	SCREW	MS3039-0406P
	2	2	73	601.2943	LOCKNUT	MS21042-5
	2	2	72	601.3128	NUT	AN316C
	2	2	71	601.3209	LOCKNUT	MS21042-4
	4	4	70	601.2638	WASHER	NAST1490132
	2	2	69	601.2669	BOLT	AN46C7A
	2	2	68	601.3119	CLEVIS	AN46S-3AP
	2	2	67	601.3121	EYE BOLT	AT46C4
	2	2	66	650.9201	EYE BRACKET ASSY	
REF		REF	65	647.5701	GPS MOUNT KIT	
	6		64	601.3151	WASHER	MS11891063P
	2		63	601.2911	SCREW	AN418P255
	2		62	601.2637	SCREW	MS27039-1-16
	2		61	601.2763	BOLT	MS112A
	1		60	646.3911	SHIM	
	4		59	646.3912	SHIM	
	1		58	646.3914	SHIM	
	4		57	646.3910	SHIM	
	5		56	600.6446	PRIMER	
.4004	.4003	.4002	51	FIND	PART 4	
					DESCRIPTION	MATL
						\$P=

						REVISITS		DATE		APPROVED			
						REV. 07/27/92							
						A INCORPORATE FCN 02199 F2251, 02149 & 02145		02/28/2016		P. BRAVO			
						B ACCORDING TO ECH 03044, 03079 & 04731		11/04/2014		P. BRAVO			
8 FT					55	600.0229	VHB TAPE						
1	1	1			54	600.1012	SEALANT			PR 1453 CLASS B			
					53	600.0791	MAGNOBOND 639S PART B						
1					52	600.0790	MAGNOBOND 639S PART A						
10					51	601.2826	BOLT						
					50	646.3814	WIPER BRACKET						
2					49	601.2910	SCREW			M527039-1-18			
					48	601.1365	SCREW						
2					47	601.2829	DOUBLER						
					46	601.2829	CUSTOM WASHER						
1					45	646.3749	DOUBLER						
					44	601.1948	SCREW			M527039-1-18			
22					43	601.1952	SCREW			M527039-1-18			
					42	601.1956	SCREW			M527039-1-18			
2					41	601.2829	SCREW			M527039-1-18			
					40	601.2834	RIVET			M527039-1-18			
1					39	646.3749	GAUGE BRACKET			M527039-1-18			
6					38	601.1853	SCREW			M527039-1-18			
					37	646.3749	STRUT DOUBLER			M527039-1-18			
2					36	601.2824	BOLT			M527039-1-18			
					35	601.2277	RIVET			M527039-1-18			
36					34	600.0795	NUTPLATE			M527039-1-18			
18					33	601.2565	RIVET			M527039-1-18			
3					32	646.3815	STRUT BRACKET			M527039-1-18			
1					31	601.2822	BOLT			M527039-1-18			
					30	601.2822	GUSSET BRACKET			M527039-1-18			
4					29	601.2564	RIVET			M527039-1-18			
2					28	646.3714	GUSSET			M527039-1-18			
1					27	646.3610	FILLER			M527039-1-18			
					26	601.2830	SCREW			M527039-1-18			
					25	601.2825	BOLT			M527039-1-18			
					24	646.3811	RADIUS BLOCK			M527039-1-18			
					23	646.3712	CLIP			M527039-1-18			
					22	646.3711	CLIP			M527039-1-18			
8					21	601.2832	RIVET			M527039-1-18			
					20	601.2020	RIVET			M527039-1-18			
10					19	601.2823	BOLT			M527039-1-18			
					18	601.2827	BOLT			M527039-1-18			
					17	601.2912	SCREW			M527039-1-18			
1					16	646.3743	GUSSET			M527039-1-18			
					15	646.3740	SUPPORT			M527039-1-18			
					14	646.3710	DOUBLER			M527039-1-18			
					13	646.3710	CHANNEL			M527039-1-18			
8	53	6	61		12	601.1624	LOCKNUT			M527039-1-18			
18	120	16	18		11	601.1607	FRANCHISE			M527039-1-18			
					10	646.3410	RM WIPER DEFLECTOR			M527039-1-18			
					9	646.3411	RW WIPER DEFLECTOR			M527039-1-18			
					8	6077703	STRUT ASSY			M527039-1-18			
2					7	646.3743	STRUT BRACKET			M527039-1-18			
					6	646.3511	STRUT			M527039-1-18			
2					5	646.3510	STRUT			M527039-1-18			
					4	646.3810	BRACKET			M527039-1-18			
					3	646.2910	DEFLECTOR			M527039-1-18			
					2	646.3001	LOWER CUTTER ASSY			M527039-1-18			
					1	646.3301	UPPER CUTTER ASSY			M527039-1-18			
X						646.4004	FIXED PROVISIONS KIT			M527039-1-18			
	X					646.4003	CABLE CUTTERS 18" WITHOUT FIBER			M527039-1-18			
		X				646.4002	ASS350 WIPER DEFLECTOR KIT			M527039-1-18			
			X			646.4001	ASS350 CABLE CUTTERS KIT			M527039-1-18			
4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.					
QTY					PARTS LIST								
NEXT ASSY (S)					APICAL INDUSTRIES								
					2608 TEMPLE HEIGHTS DR.								
					OCEANSIDE, CA 92056-3512					(760)724-3300			
					ASS350 CABLE CUTTERS KIT								
					REV. 01/24/2008								
					SCALE NONE					SHEET 1 OF 4			